

RECOMMENDED LIST OF SCC ISSUE ITEMS FOR REVIEW/CLOSURE

Recommend the following issues to be addressed:

1. Issue #3-92-01 Identify and provide resolution to continuing mail/distribution/IDSS problems.
Recommended closure.
2. Issue #5-92-01 Management of Data Element Standards
Recommended closure.
3. Issue #6-93-01 Review Combat Camera Imagery (CCI) format to insure Interoperability with NITF
Item has been updated.
4. Issue #6-93-02 TADIL Substantive Issue
Recommended closure.
5. Issue #3-94-01 Combining of UHF, SHF, and EHF Satellite Communications Working Groups.
Recommended closure per Dr. Jain's briefing.
6. Issue #3-94-05 JMSWG Review of Navy Concerns on VMF Expansion
Recommended closure.
7. Issue #3-94-07 Support for EDI SMC
Recommended closure.

Recommended the following Action Items be addressed:

1. Action Item #2-95-01 EC/EDI Policy
Recommended closure.
2. Action Item #2-95-02 CINC Participation in the ISMC
Recommend closure per Mr. Seybold's briefing
3. Action Item #2-95-03 Application Portability Interface (API) for windows briefing
Postponed
4. Action Item #2-95-04 New Standards Process Approach Briefing
Issue #2-95-04 Remain Open.

5. Action Item #2-95-05

Comments on SCC Assessment Group Documents
Postponed.

**STANDARDS COORDINATING COMMITTEE
ISSUE SUMMARY SHEET**

Updated: May 1995

Issue: #3-92-01 **Susp Date:** Open

Issue Title: Identify and provide resolution to continuing mail/distribution/IDSS problems.

Date Opened: 30 June 1992

Lead Activity: CFS

Subactivities:

Issue Statement: Identify and provide resolution to continuing mail/distribution/IDSS problems such as notifying SCC members of actions, etc., and providing them with timely information. Implement improvements to current system.

Closing Criteria: Develop Total Automation Program to include mail capability.

Milestones:

- o Conversion to ASSETS May 1993
 - o On-line CFS bulletin board system (BBS), through Dial-in and MILNET, initial operational capability (IOC) September 1993.
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Current Status: May 1995 - The Electronic Information Technology Standards Integrated Bulletin Board System (ITSI BBS) continues to get very heavy use from members of the IT standards community and its customers. The fast Internet link allows extremely quick and reliable access to the system for Internet users. The graphical user interface (GUI) software makes the system easy to use too. We continue to expand and refine the system.

Expansion of the Standards Document Library continues. The TAFIM (except for volume 5 which isn't yet available? Is on-line, including volume 7, the Adopted Information Technology Standards (AITS). Over 436 standards are on-line or pointed to when they aren't available electronically, usually because of copyright problems. Standards are organized by standards organization or type (e.g., ANSI, IEE, NIST/FIPS, MIL-STD, etc.), and by functional areas shown in the standards they need. Phase 1 work on the Library continues, with the objective of populating relevant guidance policy, and all standards identified in the AITS and MIL-STD-187-700 A. Work was not completed by the original 30 April 1995 target date due to the difficulty in locating some of the standards. However, Phase 2, which involves improving and expanding the Library as requested by our customers, is already underway.

Use of the new interface to the World Wide Web (WWW) by our customers has increased explosively, at roughly 5 to 10% per week. This interface allows users of Web browsers, like the popular NCSA Mosaic software, to access portions of the ITSI BBS account. Many customers are now retrieving the TAFIM, DoD's EC/EDI implementation conventions, and MIL-STDS electronically through this interface. We are adding more information about the IT Standards program and related areas, and adding information provided by Standards Committees and Working Groups. We have also expanded out extensive collection of pointers to other DoD and Government systems and to other standards-related systems. We are also working with DISA HQ on a DISA Home Page that would provide integrated access to all on-line information available from DISA.

We still plan to implement a 1-800 number to provide toll-free support for dial-in customers.

The Center for Standards Help Desk (703) 487-8338 continues to provide assistance for ITSI BBS users and to funnel standards related questions to the appropriate points of contact.

Issue Chronology:

SCC members requested the CFE identify and provide resolution to continuing mail/distribution/IDSS problems such as notifying SCC members of actions, etc., and providing them with timely information.

1 September 1992 - Briefing was provided on the Automation Plan which outlined the proposed short term fixes to the problems and the long term approach to support the SCC and IT Standards Process. To aid SCC members the CFS had developed an IDSS Users guide.

16 December 1992 - DDN connectivity to IDSS was discussed, members indicated that it was still a requirement.

Mr. David Sweet, Standards Program Integration Directorate/CFS, presented a short briefing on the status of the Standards Planning Database, a tool being developed within the CFS. It will assist systems acquisition personnel, program managers, and standards developers, as well as the CFS in the management of standards requirements, projects, and standards of interest to the DoD IT Standards community. Currently a prototype version of the database is available and the full capacity will not be available before the Spring of next year. Procedures to access the database system from the outside the CFS are under review and will be a key consideration on the ultimate operational capability that is established. During the break, the Standards Planning Database System was demonstrated to interested members.

28 December 1992 - The ability to access IDSS via DDN/MILNET has been restored. The new DDN address is 192.231.39.21 for link-PC users and 192.231.39.25 for those using VT100/Telenet.

January 1993 - Populating the Standards Planning Database is ongoing. Work on the

ASSETS is ongoing, current E-mail distribution issues are scheduled to be addressed at the February 1993 Defense Standardization Automation Panel (DSAP) meeting.

17 March 1993 - IDSS E-mail pass through capability was implemented in January 1993. Users can now have their IDSS E-mail automatically forwarded to their DDN/Internet address. Other requested changes (i.e., notify users of document to be coordinated via E-mail, and forward user bulletins via E-mail) are on holding pending conversion of IDSS to ASSETS. Meeting of Defense Standardization Automation Panel (DSAP) to discuss prioritize improvements to ASSETS is scheduled for 27-28 April 1993. Copies of SPD will be distributed to SCC members 17 March 1993.

May 1993 - Defense Standardization Automation Panel (DSAP) meeting was held 4-5 May 1993. Improvements to IDSS/ASSETS were not addressed. Shift from IDSS to ASSETS is overdue; implementation date unavailable. CFS is proceeding with implementation of short-term automation initiatives to improve communications with standards and customer communities. On-line CFS bulletin board system (BBS), available through dial-in and MIL-NET, is scheduled for initial operational capability (IOC) in September 1993. It will contain products like the Standards Framework, OSE/IA, Standards Survey, the ITS Management and Program Plans, and other reference material. Users will be able to upload and download information, coordinate documents and meetings, and exchange electronic mail. Access to the Standards Planning Database through the BBS will also be provided. The BBS will provide a base on which to build the IT Standards Technical Reference Library.

August 1993 - Shift from IDSS to ASSETS is overdue; implementation date unavailable. Working with ASD/P&L to provide additional FY93 funds to keep DDN access to IDSS and maintain coverage for entire IT Standards Community.

Work on short-term automation initiatives (BBS and remote access to standards planning database) preceding on schedule toward September 1993 IOC.

Work is just getting underway on ASD/C3I (IS)-approved task to implement Lotus Notes-based "groupware" to provide a means for the CFS and members of the IT Standards community to improve the management of IT Standards. Applications to be developed in the near term include document coordination and meeting coordination applications. Integrated access to the Standards Planning Database and the DoD Representatives Database will also be provide through Notes. Development of prototypes will start soon with participation from the DoD Object-Oriented Working Group. IOC for integrated access to the SPD and DoD Reps applications is scheduled for October 1993. IOC for the first two Notes applications is November 1993. The two notes applications are document coordination and meeting/activity scheduling.

August 1993 - Provided 20k in FY93 funds to keep IDSS running and available to IT community through the end of FY93. Shift from ISDD to ASSETS overdue; implementation date unavailable.

UPDATE MONTH BY MONTH

Issue Chronology:

Initial Operational Capability (IOC) for electronic Information Technology Standards Integrated Bulletin Board System (ITSI BBS) achieved 4 October 1993. ITSI BBS is available to the IT Standards community and its customers via dial-in and DDN. Provides facilities for electronic exchange of documents, meeting information including agendas and minutes, electronic mail, links to other database applications, and electronic conferencing. ITSI BBS will be demonstrated at the 9 November 1993 SCC meeting. Standards Planning Database and DoD representative information will be available through the ITSI BBS by 19 November 1993.

Work continues on Lotus Notes application development. Document coordination, meeting/activity scheduling, DoD representatives and standards planning database applications are scheduled for IOC by the end of November 1993. Prototype applications for project tracking and topic discussions have also been completed. We are in the process of acquiring a Notes suspense tracking application developed by JIEO/CIM for evaluation and possible adaption and adoption by the CFS.

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UPDATE MONTH BY MONTH

Issue Chronology:

February 1994 - Shift from IDSS to ASSETS overdue; implementation date unavailable. The OASD (ES) Standardization Program Division has informally requested 75k from DISA and its pro-rata share in FY94 for participating in the Defense Standardization Automation Program.

The electronic Information Technology Standards Integrated Bulletin Board System (ITSI BBS) is operational, with over 400 registered users. The ITSI BBS is available to the IT standards community and its customers via dial-in and DDN. The SCC Secretariat and several Standard Management Committees are making heavy use of the system, and usages accelerating daily. The Center for Standards is pushing to improve the system and its operations, and to increase the usefulness to the community. A Center for Standards Help Desk (703) 487-8338 was established in December 1993 to provide assistance for BBS users and to funnel standards related questions to the appropriate point of contact.

Work continues on Lotus Notes application development and fielding. The initial roll-out to the first group of users is underway, and the first training session was held on 3 February 1994. Prototype discussion/coordination, meeting scheduling, DoD representatives, an project tracking have also been completed and completed and developed by DISA/JIEO/CIM is under evaluation. The second phase of the Notes roll-out, which will involve 25-30 users is scheduled to be completed by the end of February 1994. Additional phases will be scheduled approximately every three weeks until the roll-out is complete, with completion of the roll-out targeted for June 1994.

May 1994 - The OASD (ES) Standardization Program Division has requested \$55k from DISA as its pro-rata share in FY94 for participating in the Defense Standardization Automation Program. The CFS is attempting to locate funds for the DSAP.

The electronic Information Technology Standards Integrated Bulletin Board System (ITSI BBS) is operational, with over 550 registered users. The ITSI BBS is available to the IT standards community and its customers via dial-in and DDN. The SCC Secretariat and several Standard Management Committees are making heavy use of the system and its operations, and to increase its usefulness to the community. A new task has been initiated to populate standards and standards information, with a target of loading all standards in the ITSP and ITSG-OSE or pointers to them, by the end of June 1994. The Center for Standards Help Desk (703) 487-8338 continues to provide assistance for BBS users and to funnel standards-related questions to the appropriate point of contact.

UPDATE MONTH BY MONTH

Issue Chronology:

Work has resumed on Lotus Notes following identification of funding which will keep the project alive. The project had been placed on hold following budget cuts that would have eliminated the project's funding. A number of CFS users now have and use Notes.

Operational support for Notes is being transitional to DISA's LAN support division. This will ensure proper operation and availability on DISA's LAN, while continuing to provide access to users outside DISA. Transition to DISA LAN support is scheduled to be completed by 1 June 1994. Once this transition is complete roll-out notes of Notes software and applications to new users will resume.

August 1994 - The OASD (ES) Standardization Program Division requested \$55k from DISA as its pro-rata share in FY94 for participation in the Defense Standardization Automation Program. Due to continuing cuts in DISA's FY94 budget CFS was unable to fund this. CFS has budgets for the requested \$66k FY95 contribution CFS expressed concern with various aspects of the DSAP. In late June CFS representatives met with OASD (ES) representatives who indicated that they share concerns. CFS agreed to provide a further briefing with more detail on a way ahead.

The Electronic Information Technology Standards Integrated Bulletin Board System (ITSI BBS) now has over 820 registered users, an increase of almost 300 since the last report. The ITSI BBS is available to the IT standards community and its customers via dial-in and DDN. The SCC Secretariat and at least 23 other Standards Management Committees and Working Groups are making heavy use of the system. The Center for Standards is continuing its push to improve the system and its operations, and to increase its usefulness to the community.

The effort to populate the standards library with standards and standards information continues. FY94 funding for the library effort was lost, but work continues at a reduced pace with in-house resources. The Graphical User Interface (GUI) upgrade, which will provide a friendly windows interface to BBS users, will be implemented in August. The mail server upgrade, which allows users to post and retrieve documents by E-mail, is also scheduled for August. An upgrade that will allow users to access the ITSI BBS through World Wide Web browsers like NCSA Mosaic is scheduled for implementation in September. The Center for Standards Help Desk (703) 487-8338 continues to provide assistance for BBS users and to funnel standards-related questions to the appropriate point of contact.

Our Lotus Notes efforts have once again been brought to a halt by funding cuts. The CFS is now working with other DISA organizations to begin implementing Notes on a DISA-wide basis. This will allow the CFS to take advantage of these other organizations' efforts, improve support through use of DISA's LAN, and resume this project in FY95 at reduced costs.

UPDATE MONTH BY MONTH

Issue Chronology:

November 1994 - The OASD (ES) Standardization Program Division has requested \$66k from DISA as its pro-rata share in FY95 for participation in the Defense Standardization Automation Program. The Center for Standards has identified and set aside those funds and will be forwarding them to the Defense Printing Service shortly.

The electronic Information Technology Standards Integrated Bulletin Board Systems (ITSI BBS) now has over 1000 registered users. The ITSI BBS is available to the IT standards community and its customers via dial-in and DDN. The SCC Secretariat and at least 25 other Standards Management Committees and Working Groups are making heavy use of the system. The new Graphical User Interface (GUI) provides a much friendlier means of accessing the system. It has been extremely well received by the user community. A mail server interface has also been added. It allows users to retrieve information from the ITSI BBS via Internet E-mail. It also allows users to subscribe to topics so that new entries are automatically mailed to them.

An interface to the World Wide Web (WWW) has also been added to the ITSI BBS. This allows users of Web browsers, like the popular NCSA Mosaic software, to access portions of the ITSI BBS including the Standards Library. The WWW interface provides customers a means to access standards and related policy, guidance, references, etc., without needing an ITSI BBS account. DoD's EC/EDI implementation conventions are now among the standards and standards-related documents being distributed from the ITSI BBS through the WWW. The WWW interface also allows the ITSI BBS to point directly to other systems with relevant information, and vice versa. This greatly increases the visibility of our standards and guidance in the C4I community. The WWW interface places the ITSI BBS squarely astride the evolving "information superhighway".

The expansion of the Standards Document Library continues. The TAFIM (except for volume 5 which is not available yet) is now on-line. This includes volume 7, the Adopted Information Technology Standards (AITS). Over 150 standards are on-line or pointed to when they are not available electronically, usually because of copyright problems. Standards are organized by standards organization type (e.g. ANSI, IEE, NIST/FIPS, MIL-STD, etc.,) and by functional areas shown in the TAFIM. This makes it easier for users to find the standards they need. The CCIS Standards Survey and other reference documents are also available. Work on the Library continues, with the goal of completing the initial population of relevant guidance and policy, and all standards identified in the AITS and MIL-STD-187-700A, by 1 April 1995.

A high speed connection to the Internet will be added to the ITSI BBS in early November 1994. This will better support the growing customer base and provide much faster, more reliable access to BBS and WWW users. We also plan to implement a 1-800 number to provide toll-free support for dial-in customers.

The Center for Standards Help Desk (703) 487-8338 continues to provide assistance for ITSI BBS users and to funnel standards related questions to the appropriate points of contact.

Our Lotus Notes efforts are currently on hold pending a decision by DISA on whether or not to provide centralized Lotus Notes support on a DISA-wide basis.

UPDATE MONTH BY MONTH

Issue Chronology:

February 1995 - As requested by the OASD (ES) Standardization Program Division, the Center for Standards provided \$66k to the Defense Printing Service to fund DISA's FY95 pro-rata share for participation in the Defense Standardization Automation Program.

The electronic Information Technology Standards Integrated Bulletin Board System (ITSI BBS) continues to get very heavy use from members of the IT standards community and its customers. A fast Internet link was added in November 1994 and the response time for most remote users has improved markedly. The new Graphical User Interface (GUI) has been very well received and many of our customers have made the transition to it. Use of the new mail server to retrieve documents is also increasing.

The new interface to the World Wide Web (WWW) has proved extremely popular to customers. This interface allows users of Web browsers, like the popular NCSA Mosaic software, to access portions of the ITSI BBS including the Standards Library, without needing an ITSI BBS account. Many customers are now retrieving the TAFIM, DoD's EC/EDI implementation conventions, and MIL-STDs electronically through this interface. We are adding more information about the IT Standards program and related areas. We also have added extensive collection of pointers to other DoD and government systems and to other standards related systems. We are now working with DISA HQ on a Home Page that would provide integrated access to all on-line information available from DISA.

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Our Lotus Notes efforts are currently on hold pending a decision by DISA on whether or not to provide centralized Lotus Notes support on a DISA-wide basis.

**STANDARDS COORDINATING COMMITTEE
ISSUE SUMMARY SHEET**

Updated: May 1995

Issue# : 5-92-01 **Susp Date:** Ongoing
Issue Title: Management of Data Element Standards
Date Opened: December 1988 (IIP) 16 December 1992 (SCC)
Lead Activity: DISA (JIEO)
Subactivities:

Issue Statement: There is a need for DoD-wide standards for database elements to ensure efficient and unambiguous exchange of data between the CINCs, Services, and Agencies.

Closing Criteria: This issue may be closed when a complete management structure for C3I data has been established and data element standardization policies and procedures are in place, to include establishment of a populated data dictionary system.

Milestones:

o Data Administration Strategic Plan (FY93-00) submitted- March 1993 (completed)
Fire Support milestones:

- o First Review of Fire Support Data Model March 1993 (completed)
- o Second Review of Fire Support Data Model March 1993 (completed)
- o Completed Data Model Delivered August 1993
- o Draft Final Report Delivered September 1993
- o Core C2 Data Model Delivered September 1993
- o Submit C2 Interim Data Elements October 1993 (completed)
- o Modeling Evaluation by Services/Agencies December 1993
- o C/S/As were tasked to identify their modeling activities to JIEO 1 September 1993
- o Publication of modified Generic Hub/C2 Core data
Standardization Acceleration project 1 September 1993
- o Publish C2 Starter Set (210 Data Elements) October 1993 (completed)
- o Submit C2 Starter Set to DoD Data Standardization Acceleration Project
(DoD Starter Set) November 1993 (completed)
- o Review DoD Starter Set December 1993 (completed)
- o C2 Core Data Model Functional Validation December 1993
- o Global Command and Control Systems (GCCS) Data Migration Plan December 1993
- o Submit C2 Core Data Model proposal packages 1 March 1994
- o Enter C2 Data Model data elements in DDRS 1 May 1994
- o C2 Core Data Model Proposal Package submitted 1 March 1994

o Fire Support Data Model Proposal Packages Submitted 1 April 1994

Current Status:

May 1995 - 612 C3 Entities and data elements are in the approval process. 477 entities and data elements are approved.

SOCOM proposal package submitted to the approval process 2QTR95. Medical Planning and Execution Systems (MEPES) proposal package submitted to the approval process 2QTR95.

C3 Data Administration Strategic Plan submitted 2QTR95.

Army mandated use of C2 Core Data Model as basis for Data Modeling in C4I Army Technical Architecture, 31 March 1995.

Tiger Team to standardize C3I Data Elements, began work 3QTR95.

Population of the prototype data dictionary system delayed due to lack resources.

Implementation of Data Standards and the C2 Core Data Model "Army Issues" met 3QTR95, CFSW has the lead for DISA.

Issue Chronology:

16 December 1992 - Issue transferred from IIP to SCC

IIP background on issue:

1ST QTR FY93 IIP:

COL Adinero, (DISA-JIEO) briefed this issue. DISA JIEO has initiated a 5 phase action plan based on the J6's Memorandum dated 25 June 1992. The five steps involved, and their current status, are:

(a) Nomination of JOPES Data Elements to the DDRS:

Developmental: 1892

Candidate:

Approved:

Total:1892

(b) Nomination of USMTF derived C3 Data Elements to the DDRS:

Developmental: 1677

Candidate:

Total: 1677

- (c) Nomination of IDEAS (Intelligence) data elements to the DDRS: The Intelligence Functional Data Administrator (FDAD) is preparing the elements for submission.
- (d) Modeling for Nomination by Functional Area (Prototype):

Delivery of initial draft Fire Support data model and briefing were completed on 29 October 1992. Coordination with the Army Field Artillery School, Ft. Sill, was conducted in early November. When funding becomes available, the Fire Support modeling effort will continue as follows:

Review Initial Draft Data Model	DEC 92
Draft Data Model Delivered	JAN 93
Review/Coordinate Draft Data Model	APR 93
Completed Data Model Delivered	MAR 93
Data Elements Mapped to Data Model	APR 93
Data Elements Submitted to DDRS	MAY 93

- (e) Modeling for Nomination by Functional Area:

The Center for Systems Integration and Interoperability (CSII) is applying the CIM Initiative Methodology to PACOM for proof of concept using the JTF CONOPS. Success will lead to DDI approval to move forward by applying CIM Process Improvement Methodology for all of PACOM, a multi-year endeavor. Analysis include IDEFO Process Modeling, IDEFLX Data Modeling, Colored Petri Net Simulation (CPN), Geo-technical Modeling (GTM), Activity Based Costing (ABC), and Functional Economic Analysis (FEA).

COL Adinaro requested that this issue be passed to the SCC for final resolution. The IIP membership agreed that the issue is clearly an effort within the JIEO Center for Standards and the Center for Information Management (CIMS). However, since this issue was formally assigned to the IIP from the MCEB Principals, an official transfer to the SCC would not be entirely supported by the MCEB Secretariat. The SCC is recognized as the issue lead, but will continue to brief this issue and pass all information papers required by the MCEB through the IIP.

FY 91 WG DISCUSSION:

Mr. Bozek, DoD Comptroller Office, began by briefing the DoD Data Administration Program and said that there were a significant number of different data dictionaries being used within DoD. He next briefed the history of the issue and the need for data element standardization. A working group had been formed and a

revised DODD 5000.11 had been staffed. The plan is to prepare the reconciled draft of DoD 5000.11 for approval by the end of the calendar year.

LTC Molter, Joint Staff, J7 covered the effort to revise the companion DODD 5000.11M. The manual is the procedures document to be followed by the community. The Joint Staff saw a critical need to get the process moving and, since J7 had a contractual vehicle in place, they volunteered to assist the Comptroller by beginning work on the manual. An annotated outline was expected to be presented to the Comptroller by 28 November 1990, with development of a draft manual by 15 February 1991. LTC Molter also touched upon the revision of Joint Pub 6-03.15 which covers WWMCCS ADP Modernization (WAM). This document will be revised along with 5000.11M so as to conform to the new DODD 5000.11 and 5000.11M.

A significant aspect of LTC Molter's briefing included the status of joint data elements. On 1 November 1990, WISDIM version 1.1 will be released and will define 126 data elements and data about what composes each of these elements. on 16 November , another 136 candidate elements will be released, with a final release by 1 January 1991 of the remaining 686 candidate elements for review by the joint community. By 1 March 1991, WISDIN version 2.0 will be released and J7 will begin the process of approving those data element candidates contained in WISDIM. In the opinion of J7, WISDIM will then become the WAM data element dictionary.

LTC Molter continued by reviewing at least five actions ongoing addressing C3I Data. He mentioned that it was very important that we support a DoD wide data standardization and not just C3I data. There needs to be an overall policy, not just for C3I data, but for all other areas producing data. DIA mentioned that the thrust of these efforts was not just to get the C3I data together, but that was part of a larger overall DoD-wide effort.

Maj Snead, JTC3A, next briefed on the problem of WISDIM and USMTFs Interoperability problems. He noted that no one has selected WISDIM yet as the DoD standard dictionary and so we may be ahead of the game in comparing MTFs to WISDIM. He briefed what actions JTC3A will do to look at any potential problems, while acknowledging there are structural and definition problems between WISDIM and USMTF. Since USMTF is a joint program with international implications it must be looked at when considering implementation of a standard data dictionary. JTC3A will continue to look at the structural and definition differences and, once authorized, will attempt to fix the problems.

The Army commented that there was no real need to reconcile a standard data dictionary, and USMTFS. While there needed to be some exchange criteria the USMTFs should be viewed as interim

fixes to man -machine interfaces and, DoD is moving towards a machine to machine interface. The Army recommended that the words C3I be deleted from the proposed new closing criteria and it should read just data elements. The Army believes there is no such thing as specific C3I data elements, and that there needs to be a structure for managing all data elements, not just C3I elements.

The recommendation to adopt the new closing criteria, as presented, was approved, and the Army's objections to using the word C3I when referring to data element standards was agreed to be noted in the minutes. Additionally, the Army recommended that the JTC3A and Joint Staff briefings to the IIP SB also identify the significance of the USMTF and WWKMCS differences. The Working Group agreed to accept the new proposed recommendations.

FY 91 SB DISCUSSION:

LTC Molter, J7, briefed the update on the Management of Data Elements issue. He stated the DoD 5000.11M packet is scheduled to be delivered to OSD on 15 April 1991. Initial coordination out to the field is planned for June 1991. JCS Pub 6-03.5 is on hold until the publication of DoD 5000.11.

Several areas are affecting C3I Data Administration, specifically the reorganizations of ASD(C3I) and DCA. ASD(C3I) is now the proponent for CIM and DCA the Executive Agent. Currently, no regulations exists for the administration of joint data requirements. J7 also stated C3I data cannot be standardized unless all functional areas have the same data administration policy and standard data. The responsible JCS office for data elements is not clearly defined. Currently, C3I data cannot be standardized due to the fact it cuts across too many functional areas. A policy needs to be developed to standardize all data. Data administration is a technical issue, but has been addressed by the joint world as a functional issue.

J7 briefed the status of the data element dictionary WISDIM. Version 2.0 is expected to be distributed with the currently approved data element standards 30 March 1991. He also indicated existing systems do not use standard data elements.

Maj. Snead, JTC3A, Center for Standards, briefed the Data Element Standardization program. He stated numerous unresolved issues exist at the DoD and DCA levels which could impact on the program. Unless otherwise notified, the Center for Standards will continue working towards the goal of becoming the Data Administrator for C3I Data Element Standards. He spoke of the limited Interoperability and compatibility of the myriad of fielded systems within DoD. On 16 November 1990, the Secretary of Defense signed a letter centralizing the direction of data element standardization with the Center for Standards taking the

lead. They are taking the "building block" approach and have established milestones to cost effective efficient C3I systems.

The Chair of the Screening Board submitted that issue recommendations 2-4 have been accomplished. The Army disagreed, saying recommendation 3 (currently 12), the comparison of USMTFs and WWMCS had not been accomplished. The Army also stated J7 and JTC3A have opposing definitions of data elements. LTC Farmer recommended tying JTC3A's near term approach with J7's Long Term solution into a coordinated effort.

Joint Staff, J6J provided the Screening Board with the information of a Memo from OSD forming a task group to study all Data Requirement issues throughout OSD within 60 days. J6 will head one of the working groups. The main thrust of the memo is to compare DDN and FTS 2000 and their ability to satisfy DoD data communications requirements.

FY 91 IIP PB DISCUSSION:

Significant progress has been made in the IIP issue area of Management of C3I Data Element Standards. ASD C3I has named DISA as the Executive Agent for the DoD Data Administration Program with the Army serving as the interim Executive Agent for the program for the next 12 to 18 months. DISA's senior leadership sub-divided the programs' functional responsibilities and established relationships between the Center For Information Management (CIM) and the Center for Standards (CFS) that resulted in the CFS selection as the Lead Agent for C3I data management. In addition, the CFS was selected to maintain the DoD data dictionary and serve as the agency to promote, interface and export DoD data standards to the commercial, national and international standards bodies. In this new role the CFS is taking the lead in planning and implementing a Data Element Standardization Program within the C3I community with the intent to achieve commonality of data elements resident/used in all C3I databases and systems throughout DoD.

Because of the complexity of the issue, high-level visibility and time sensitivity, considerable research and analysis will be required to initiate a DoD-wide "building block" approach to C3I data standardization. The "building block" methodology is the CFS proposed approach to accomplish/manage the C3I data standardization effort that focuses on standardizing/harmonizing small, logically related and manageable portions of data resident in the numerous C3I systems. In order to execute the C3I data standardization program using the aforementioned "building block" approach, the CFS has developed a proposed Plan of Action to be submitted to ASD C3I through the Center for Information Management.

There are several on-going initiatives within the CFS that will eventually support the overall DoD C3I data element standardization project. A major CFS initiative involves the rationalization and harmonization of the Joint Tactical data bases (USMTF, JTAO and TADIL J). The ultimate goal of this effort is to determine the feasibility and improved efficiency versus cost effectiveness and operational impact on field users of aligning these data elements with the proposed set of DoD data standardization naming conventions, rules and definitions. The initial focus of this initiative identified and documented redundancy, structural discrepancies and definition inconsistencies within these data bases. The direct result of this data base "scrub" was the establishment of a baseline inventory of Joint Tactical data elements which will serve as the starting point/foundation for the implementation of the centrally managed "building block" approach to C3I data standardization. Another outcome of this initial effort was the development of a proposed basis of comparison using DODD 5000.11-M guidelines. This methodology/basis will facilitate the data element standardization process in the future. Another major CFS initiative supporting the DoD Data Management Program, involves conducting an in-depth survey of all data bases/data dictionaries within the C3I functional area. This survey will be used to provide the Director, Defense Information, ASD C3I, with insight into the scope/magnitude of existing C3I databases. In addition, this survey will be used to prioritize the data bases in the C3I data standardization effort, facilitate data and process modeling, document/compile the existing DoD C3I information systems architecture and assist in the development of transition and future C3I architectures.

FY 92 WG DISCUSSION:

Maj Charles Snead provided an update to this tabled issue. He began with a background briefing stating that DISA has been designated as the Executive Agent for DoD data administration. The Center For Standards (JTC3A) became the lead activity for this effort. Substantial progress has been made of rationalization (identification) and harmonization (deconfliction) of joint tactical data bases beginning with USMTF, JTAO, and TADIL J. Additionally, Variable Message Formats (VMFS) have been added to the rationalization efforts. The draft 5000.11M has now been scrubbed against the good data elements found from the rationalization and harmonization process. At this point in time, about 20% of the data elements in WISDIM are now the same as the joint tactical databases (USMTF/TADILJ, etc). The old 5000.11 was published as DODD 8320.1, 26 Sep 91. DISA was also recently designated the DoD Data Administrator.

TRANSCOM was concerned about the implementation of 5000.11 and what was going to happen to existing data elements in USMTFS.

TRANSCOM feels that there is a lack of Interoperability of USMTF data elements within DoD 5000.11M. This results in high overhead costs for maintaining conversion programs with operational systems. The lack of data standardization limits the DoD's ability to exchange mission critical C3I information and impacts tactical war fighting effectiveness. Solutions to existing operational systems needs to be addressed in the near term as existing systems may be operational for many years before being replaced. The IIP WG felt that the issue has reached its closure criteria but recommended that the issue remain tabled and the IIP be provided with information briefings in order to continue to track and monitor data element harmonization progress.

FY 92 SB DISCUSSION:

LtCol Snead (DISA-JIEO) briefed this issue. Significant progress has been made in the area of Data Management since the last IIP meeting. DISA, through the Center for Information Management (CIM) will lead the overall planning and implementation of a DoD wide Data Element (DE) Standardization Program. This program will provide the required centralized direction and coordination of all DE standardization activities, provide the final technical review and approval for all business and C3I related DE standards, and establish a centralized facility (DoD Data Dictionary) that will "house" all developers, program managers, and Service and Agency customers/users.

The Center for Standards will provide support to the Functional Data Administrator (FDA) for the Command and Control functional area in executing the FDA's responsibilities established in DoD Directive 8320.1. The CFS supports DISA CIM, the DoD Data Administrator, by promoting and exporting DoD data element standards to external groups.

LtCol Snead provided a review of the two primary initiatives; the initiation of the Center for Standards building block methodology, and the development of a C3I data architecture. The rules and naming conventions per DODD 5000.11M and 8320.IM state that data elements must have their origin in an approved data model. The IDEFs that have been accomplished within JIEO will provide the processes to allow the data model to be derived. Otherwise, rationalization and harmonizations efforts with the MTFS, TADILJ, and JTAO would need to be repeated. The first task will be to complete the data model for Fire Support, Intelligence next, and then Air Defense.

The four major tasks to be performed under this issue are:

- Rationalization and Harmonization of Data Elements resident in existing Joint Tactical data bases.

- Develop data models from the Joint FIAS. This effort will commence in April 1992 and provides a means of tracing and linking existing data elements to a data model. The data model for each FIA will be integrated into a C3I data architecture. - Establish a C3I Data Element Infrastructure. This will be realized through a joint management body that will provide centralized management to the C3I data element standardization effort. (Because this may be viewed as just another management layer the establishment of this body is still undecided.) - Data Element Standardization Process Model. A detailed activity model that will define specific functions, tasks, and responsibilities for the CFS, in their role of Administrator for the C2 and Intelligence data element standards program.

IIP Chair: Suggested that due to the critical nature of this issue and until there is an established Data Dictionary, the issue should remain open. The SB concurred.

4Q FY92 C4I-IIP DISCUSSION:

Ms. Hughes from the Center for Information Management (CIM) provided an information brief on this tabled issue and reviewed the key elements of the DoD Data Administration Program. With the advent of a organization structure, policies, procedures, and standards, established under DODD 8320.1; and a data administration strategic and implementation plan; two of the three closure criteria for this issue have been met. Population of the data dictionary is the final requirement for closure of this issue. Prior to adjournment the membership was informed that the JOPES data elements would be going online for customer access beginning 24 August 1992.

DISA/JIEO has initiated a 5 phase action plan outlined in the J6's Memorandum dated 25 June 1992. The plan details five critical steps involved in the population effort. The steps are: (a) Nomination of JOPES Data Elements; (b) Nomination of USMTF derived C3 Data Elements; (c) Nomination of IDEAS (Intelligence); (d) Modeling for Nomination by Functional Area (Prototype);(e) Modeling for Nomination by Functional Area.

16 December 1992 Issue Transferred from IIP to SCC.

17 March 1993 DISA/JIEO received funding from CIM Central Funds to complete the Fire Support Modeling Effort and begin other modeling efforts. Fire Support Data Model with subject matter experts (SME) from all services. The model reviews ensure that the model captures the areas of field artillery, naval surface fire support and close air support. Results of the model reviews will yield a revised model that serves as the basis for data standardization in support of C4I For The Warrior Interoperability initiatives and DoD requirements for standard data elements derived from data models. Other work included

under this task is to develop a C2 joint data model and identify opportunities for its use in future system development and data standardization.

Memorandum of Agreement on Data Element Standards:

Coordinated and concluded Memorandum of Agreement (MOA) between the Joint Staff Director for C4 Systems and the Deputy Assistant Secretary of Defense for Strategic and Tactical C3 on data elements standards for the C4I for the Warrior (C4IFTW) Quick Fix Phase. The objective of the MOA is to agree to actions that contribute to the successful execution of the Quick Fix Phase of C4I FTW while ensuring that appropriate standard C2 data elements are available for and used in the Joint Universal Data interpreter (JUDI) in the Quick Fix Phase for C4IFTW.

US PACOM Crisis Action System (CAS) Modeling:

DISA/JIEO participated in activity modeling and data modeling during 22 February -12 March 1993 to capture procedures used by the US PACOM Crisis Action System (CAS) during lesser regional conflict. The models will illustrate the actions taken by the Crisis Action Organization from inception of the operation to its conclusion. Initial Viewpoint will be that of the CINCPAC with emphasis on 2-tier CONOPS, Extended Staff and PACOM unique features. This effort is in support of the Director, Defense Information's (DDI) request to provide a proof of principle of the application of the CIM Process Improvement Methodology to C4 systems' Interoperability problems in the Pacific Theater. This effort supports a larger to apply the CIM Methodology to the development and maintenance of Functional Requirements and Capabilities Assessments (FRCAS) and C4 System Master Plans.

Air Operations Modeling:

Coordinated effort with the Army and Air Force for joint participation in a data modeling effort for Air Operations. This was in response to an Army request to accelerate development of a DoD Air Operations Data Model and associated data elements. The Army has a priority to standardize all data elements required for the Reserve Component Automation System (RCAS) by March 1994. The Air Force is scheduled to begin modeling the overall Air Operations Requirements in March 1993 and will be the lead service in the effort. Other services will be requested to participate to ensure DoD's overall requirements are incorporated in the model and to facilitate approval of the proposed standard data elements derived from the model.

10 May 1993 - DISA/JIEO hosted a Fire Support Data Model review 1923 April 1993 and continued the development of data model derived data elements. A subsequent review session was conducted with a representative from the U.S. Army Field Artillery School to confirm the work to date. A meeting is scheduled in May 1993 to review the Fire Support Data Model and the DoD Data Model and prepare recommendations for DISA-CIM.

US PACOM Crisis Action System (CAS) Modeling:

DISA/JIEO participated in activity modeling and data modeling during 22 February -12 March 1993 to capture procedures used by the US PACOM Crisis Action System (CAS) during lesser regional conflict. The next activity is scheduled for 17-28 May 1993.

Air Operations Modeling:

The Air Force is currently modeling Theater Battle Management and will expand their scope to include joint DoD requirements. A meeting was held at Air Combat Command, Langley AFB, VA, 28-30 April 93 to discuss the scope and approach for development of the Air Operations modeling effort. A follow-on meeting is scheduled for 14 May 1993 to address funding, specific service responsibilities and milestones.

27 May 1993 - C2 Data Element Standardization update briefed to MCEB. MCEB tasked JIEO to propose the Generic Hub as core C2 data model by 10 June to the service component Data Administrators, seek formal service approval by 20 July 93, submit the Fire support extension for formal approval, and publish interim C2 Data Elements for use in current acquisitions.

15 July 1993 - Dr. Quinn, C2 Functional Data Administrator, held a C2 coordination meeting to agree to the interim C2 Data Elements, and agree to the Generic Hub. A JIEO Focus Group met prior to the meeting to review the integration issues involving the Generic Hub and the DoD Data Model. JIEO presented the results of this initial effort at the meeting. The presentation outlined a DOD Data Model that would be modified to include the C2 view. The interim C2 data elements were presented and comments were provided to JIEO. The outcome and recommendations of this meeting and other were presented to the MCEB on 27 July 1993.

28 July 1993 - The 27 July 1993 MCEB tasked JIEO to publish the Modified Generic Hub/C2 Core Data Standardization Acceleration Project. The C/S/As were tasked to identify their modeling activities to JIEO NLT 1 September 1993.

November 1993 - The 29 October 1993 MCEB tasked JIEO to develop a GCCS Data Migration Plan and schedule to begin in December 1993, provide approved data element sets to industry NLT January 1994, put future focus on model derived standard data elements, and update the MCEB in January 1994.

February 1994 - JIEO CIM published the draft GCCS Data Migration Strategy and Standardization Plan on 30 January 1994. The MCEB requested Data Standardization meeting is scheduled for 22 February 1994. Entities from the C2 Core Data Model are being submitted to the formal 8320 process, which will result in entities in the DOD Data Model and standard DOD data elements.

May 1994 - Data elements from the C2 Core Data Model are in the formal approval process. Of 478 submitted, 13 have been approved

(1 May 1993). 120 Data elements from the Fire Support Data Model are also in the formal process.

The MCEB Data Standardization Task Force was tasked to accelerate the standardization of C2 Data Elements for the Global Command and Control System (GCCS). The effort is focused on collaborative efforts to produce and integrate data models, and to produce C2 Data Elements for GCCS. Collaborative planning will begin in May, with the initial standard data elements approved by 28 July, 1994. Service support is essential to the success of this effort.

August 1994 - 755 Entities and data elements from the C2 Core Data model are in the approval process. 118 Entities and data elements are approved.

The C3I stakeholders meeting (20-23 July 1994) identified extensions for the C2 core data model that are being developed by the C3I community. These efforts are being aligned and documented as a master schedule. This schedule will be used to prioritize collaborative planning sessions.

The MCEB (25 July 1994) directed JIEO to:

- (a) Develop options and implement effort to ensure continuing progress on C2 Data Element Standardization.
- (b) Provide IPR and recommendations at 29 August 1994 MCEB.
- (c) Schedule a session for the C2 collaborative working group immediately.

August 1994 - Dr. Kaplan requested the support of the members for the upcoming series of meeting to be held to support the accelerated development and approval of C2 data elements. What is needed are subject matter specialists, identification of war fighter requirements, and the necessary source documents to aid in the production and validation of the needed models. A subject specialist meeting is scheduled for August 22, 1994; collaborative planning sessions on selective topics are scheduled for September 12, 1994; and a C3I stakeholder's meeting is set for September also. Details will be provided shortly via the ITSI BBS

November 1994 - 765 Entities and data elements from the C2 core data model are in the approval process. 333 Entities and data elements are approved.

JIEO location collaborative modeling session was held in September 1994. Facilities and material collaborative modeling sessions scheduled for 2nd Qtr 1995.

C2 Data Element policies and procedures are in development. Population of a prototype Data Dictionary system is planned for 2nd Qtr. 1995.

February 1995 - 765 Entities and data elements from the C2 core data model are in the approval process. 395 Entities and data elements are approved.

Facilities and material collaborative modeling sessions scheduled for 2nd Qtr 95.

C2 Data Element policies and procedures are in development.
Population of a prototype Data Dictionary system is planned for
2nd Qtr. 1995.

C3I Stakeholders meeting was held 1-3 February 1995. 135 people attended to develop C3 implementing procedures. Data administration Strategic Plan and C3 Data Model Guidance.

**STANDARDS COORDINATING COMMITTEE
ISSUE SUMMARY SHEET**

Updated: August 1995

Issue: # 6-93-01 **Susp Date:** Ongoing
Issue Title: Review Combat Camera Imagery (CCI) format to insure
Interoperability with NITF
Date Opened: 17 Mar 93
Lead Activity: CFS
Subactivities: N/A

Issue Statement: Request for information on Combat Camera
Imagery format comparability with the proposed National Imagery
Transmission Format Standards (NITFS).

Closing Criteria: Report back to the MCEB on whether or not NITFS can be used for format
Interoperability.

Milestones:

- o Determine comparability of the CCI with NITFS. - done.
 - o Combat Camera Imagery Requirement to be addressed at the NITFS
Technical Board 7-9 April 1993. - completed.
 - o MCEB to be updated until determination of applicability w/NITFS is resolved.
-

Current Status: August 1995 - On 27 April 1995, a meeting was held at the Armed Forces
Information Service (AFIS) headquarters. The meeting's purpose was to gain access to the
CIO United States Imagery System (USIS) through compliance with the National Imagery
Transmission Format Standard (NITFS). It was agreed that AFIS would provide to the CIO a
Concept of Operations (CONOPS) Plan, which would allow the CIO to review the AFIS
requirements and operating environment. The CIO agreed to pursue hardware and software
options which, if realized, will greatly facilitate AFIS access to USIS, via the current AFIS
production environment. Since the April 1995 meeting, AFIS has provided the CONOPS to
the CIO for study and CIO has provided a background briefing to AFIS on the Image Product
Archive initiative. Another meeting is scheduled for October to review progress in the CIO
translation software efforts.

Issue Chronology:

March 1993 - NITFS Technical Board (NTB) has requested input on Combat Camera Imagery Requirements be addressed at their meeting 7-9 April 1993.

10 May 1993 - the DISA NITFS POC, Ms. Ciepiela, and Mr. Puckett, Chairman of the NITFS Technical Board and representing the Central Imagery Office (CIO), met with Mr. Ashcraft, Deputy, OASD (Public Affairs) to discuss CCI/NITFS Interoperability. Both the CIO and OASD (PA) concluded that there are definite areas within the Transmission of Combat Camera Imagery processing that require NITFS comparability and Interoperability. It was also agreed that the situations requiring this comparability need to be reviewed from OASD (PA) and OASD (C3I) perspectives. Time frames for this conversion process would be addressed based on immediate and long term requirements.

Based on the meeting of 10 May, OASD (PA) and the CIO have requested the Center for Standards establish a working group, either through the proposed Imagery Standards Management Committee (ISMC) or a DISA INST LSA Working Group to resolve this issue. In view of the pending 30 June 1993 approval for NITFS, and due to the fact that the ISMC has not yet been approved, it is recommended that the INST establish these meetings.

The Army's Combat Camera Imagery Program was briefed to the NITFS Technical Board on 9 April 1993 by Major Keunning, USAFIC. At that time, the NTB Chair concluded that CCI (for the Army) requires NITF compliance for certain tactical/intelligence situations. The NTB Army Representative, Major Wiley, later phoned USAFIC (Major Keunning) and offered NTB cooperation in achieving this objective, if required. Specifically, the NITF-compliant software could be provided by the CIO and loaded on the workstations sending and receiving the image. A progress report by the Army NTB rep will be made to the NTB on 8 Jun 93.

August 1993 - 15 July 1993 the DISA NITFS POC, Ms. Ciepiela, and Mr. Puckett, Chairman of the NITFS Technical Board, representing the Central Imagery Office (CIO), met with Mr. Ashcraft, Deputy OASD (Public Affairs) and Mr. Latson OASD(PA) to discuss CCI/NITFS Interoperability. Discussions centered on systems using primary and secondary imagery dissemination. It was agreed that the CIO will provide a list of NITF-Certified systems and their secondary formats to the OASD(PA) and the CIO would receive a list of primary imagery systems using Combat Camera Imagery formats for comparison. Once these are reviewed, time lines and test criteria for NITFS Certification of hand-held systems, as required, can be developed at the NITFS test laboratory, Ft. Hoecake.

Based on the meeting of 15 July, ongoing meetings will be held through the Center for Standards Information Standards and Technology (INST) standardization area Imagery Working Group until the issue is resolved. The National Imagery Transmission Format Standards (NITFS) were approved on 18 June 1993 and are due to be implemented 1 October 1993 (FY94). Implementation guidelines, to include usage by hand-held imagery applications, are currently being developed by the CIO with coordination through the INST.

A follow up meeting will be held on 1 September 1993, between OASD(PA), CIO and the INST to review primary/secondary systems and to review implementation guidelines.

November 1993 - This is an on going project that is under the management of the NITF Technical Board (NTB). The initial meeting scheduled for 1 SEP 93 was postponed due to scheduling conflicts with the key players. Both communities have agreed that Interoperability is a must and that the management should eventually fall under the Imagery Standards Management Committee (ISMC). Comparative analysis to determine which systems use both the NITF format and the Combat Camera Imagery format has begun.

February 1994 - This project is now under the management of the Imagery Standards Management Committee (ISMC), chaired by the Central Imagery Office (CIO).

The CIO and CFS met with members of the Defense Audio-Visual Policy office (DAP) on 12 January 1994 to discuss; the mutual implication between Combat Camera and CIO initiatives, Combat Cameras digital architecture standards, and the NITF Mil-STD's. Mr. Puckett, the CIO POC indicated that the CIO was attempting to put together a concept of operations that involves both translations from existing image storage systems into NITFS and the creation of a prototype Image Product Archives (IPA) and would like to include Combat Camera applications) within this initiative. The funding implications of such an effort will be discussed at the next combat camera meeting in late March, specifically, whether the DAP or specifically, whether the DAP or CIO will fund this project.

Additionally, the DAP application which would be prototyped would require access to the DISN classified and unclassified 56kbps level. Additionally, the CFS (TBC) will continue to coordinate with both the CIO and DAP to address any changes necessary to the NITF MIL-STDS with regard to this issue.

May 1994 - This project is now under the management of the Imagery Standards Management Committee (ISMC), chaired by the Central Imagery Office. The CIO and CFS (TBCE) met with members of the Defense Audio-Visual Policy Office (DAP) on 15 March 1994 as a follow-up to the 12 January 1994 meeting. The purpose of this meeting was to discuss imagery requirements for both the intelligence

community and the needs of the war fighters and the operators as well. Specific discussions revolved around the issues of both software and hardware incompatibilities, i.e., MAC (DAP) vs UNIX (CIO) environments and the costs to achieve compatibilities between visual imagery archiving systems and the CIO's overall Imagery Architectural Model. Development of a strategic plan for predominantly MAC-based systems is due this summer from the DAP. The CIO and the CFS will coordinate on this plan. Data storage within the CIO's Imagery Database and the specific formats for DAPs input are subjects for future discussions. This may require a formal change to MIL-STD 2500 if the NITFS Format is to be used as a CIO database requirement. A follow-up meeting is scheduled for the June time frame.

August 1994 - On 29 July, the CFS NITFS POC met with Central Imagery Office (CIO) personnel regarding the status of NITFS Interoperability with respect to hand-held cameras. The CIO in conjunction with the J3 is developing a prototype camera within their R&D Division to provide NITFS capabilities for hand-held operations.

A meeting will be held in late August between the Defense audiovisual Policy Office (DAP), the CIO and CFS representatives to brief this latest technology as well as continue discussions on visual imaging archiving systems between DAP and CIO efforts.

Follow up to this August meeting will be presented to the Imagery Standards Management Committee (ISMC) at their next regularly scheduled meeting in October.

November 1994 - Ongoing discussions occurred at the NITFS Technical Board on 20 Oct 1994, to install TACO 2, the NITFS Tactical Communications Protocol on the OASD(PA) is Macintosh Hardware. NITFS Version 2 will also be installed at that time. The funding of this application and the time frame for doing this by the CIO will be addressed at the next ISMC on 22 November 1994.

February 1995 - Since October 1994, members of the Defense Audio Visual Policy Office (DAVPO) have met with the Central Imagery Office (CIO) Research and Development (R&D) Division to discuss the continuing development of the CIO's prototype camera, which will provide NITFS capabilities for hand-held operations. A demo of this prototype is to be given by the CIO to the Defense Airborne Reconnaissance Office (DARO) in the month of February, date TBD, at which time the DAVPO and Center for Standards (CFS) have been invited to attend. Additionally, the status of this prototype, its use by DAVPO and any proposed changes to the NITF Standard will be addressed by the CIO at the next Imagery Standards Management Committee (ISMC), on 1 March 1995. The ISMC will be held at the CIO Headquarters.

August 1995 - On 27 April 1995, a meeting was held at the Armed Forces Information Service (AFIS) headquarters. The purpose of this meeting was to gain access to the CIO United States Imagery System (USIS) through compliance with the National Imagery Transmission Format Standard (NTIFS). It was agreed that AFIS would provide to the CIO a Concept of Operations (CONOPS) Plan, which would allow the CIO to review the AFIS requirements and operating environment. The CIO agreed to pursue hardware and software options which, if realized, will greatly facilitate AFIS access to USIS, via the current AFIS production environment. These hardware and software options could provide reference/translation/transfer software that would convert present AFIS products, including digitized combat camera imagery into National Imagery Transmission Format (NITF) - compliant products, when required. Representatives from AFIS, the CIO and DISA (CFS) were in attendance.

Since the April 1995 meeting, AFIS has provided the CONOPS to the CIO for study and CIO has provided a background briefing to AFIS on the Image Product Archive initiative. Another meeting is scheduled for October to review progress in the CIO translation software efforts.

**STANDARDS COORDINATING COMMITTEE
ISSUE SUMMARY SHEET**

Updated: May 1995

Issue: 6-93-02 **Susp Date:** Ongoing
Issue Title: TADIL CCB Substantive Issue
Date Opened: 17 Mar 93
Lead Activity: CFS
Subactivities: Services, CINCs

Issue Statement: The Tactical Digital Information Link (TADIL) J Configuration Control Board (CCB) has reached an impasse over whether to include the fighter back link capability in the standard as a mandatory capability or an optional capability.

Closing Criteria: The standard has determined whether the fighter back link capability is made mandatory or optional.

Milestones:

Current Status: May 1995 - This issue is dormant. The Air Force has not voiced any further objection. Awaiting NATO DLWG approval of the Air Control Revision Change Proposal.

Issue Chronology:

1-5 February 1993 TADIL CCB approves TJ93-001, Ch 1 12 Feb 93 USMC Declairs

Substantive Issue 12 February - 4 March 1993 - JIEO consolidate Cincs, Services, Agencies 8

March 1993 - JIEO Forwards issue to SCC

17 March 1993 - LtCol Zielinski introduced the TADIL CCB issue at the 17 March 1993 SCC meeting. On behalf of the TADIL CCB, he asked the SCC members to resolve the issue. Major John Fromularo of the Marine Corps Systems Command provided the U.S. Marine Corps position, which served as the basis for the substantive issue.

He outlined the basis for the requirement that the fighter back link capability be mandatory. In response, LtCol Carey Nehans of HQ, Air Combat Command, U.S. Air Force, provided the argument for having the capability only as an option. After all parties had expressed their opinion, Dr. Kaplan called for the interested parties to vote their positions. The majority, including the U.S. Navy, the U.S. Marine Corps, the Joint Staff, the U.S. Army, CINCLANT (also representing EUCOM, FORSCOM, and SPACECOM with TRANSCOM, SOCOM, STRATCOM, and PACOM) voted in favor of a mandatory capability, with only the U.S. Air Force providing a dissenting position. Dr. Kaplan therefore stated that the will of the majority favored a mandatory capability. The U.S. Air Force then stated that it would appeal the decision to a higher authority. The Air Force representative further stated that since he felt the issue was operational, the MCEB might not be the proper forum to raise this issue. He stated that he would investigate to determine if another forum might be more appropriate. Dr. Kaplan asked the Air Force to let the chair know as soon as possible to which forum they intended to take the issue. The Air Force agreed.

Memorandum HQ USAF/SCX, Subject: back link Requirements in TADIL-J Standard, Dated 8 April 1993. Stated the Air Force has decided to elevate the TADIL-J back link issue. The Air Force is investigating bodies other than the Military Communications Electronic Board for resolution.

1 July 1993 - Air Control Revision Data Link Change Proposal presented to NATO for allied coordination and approval.

16 July 1993 - AF/XO ltr to Gen Edmonds requesting optional implementation. Gen Edmonds asked the question, what has to be done to implement (i.e., does the capability come with the terminal or does it have to be developed, etc.) and what are the costs involved?

November 1993 - Memorandum HQ USAF/XO, Subject: TADIL-J back linking Capability for Fighters and C2 Platforms, Dated 16 July 1993. Memo to J-6 elevating their request for optional back link implementation. Request based on lack of current AF operational need for this capability and their intent to use C2 info in the receive only mode when operating in the low probability of intercept/low probability of detection (LPI/LPD) mode.

Memorandum J-6, Subject: TADIL J back linking Capability for Fighters and C2 Platforms, dated 12 August 1993. J-6 to USAF XO informing USAF the matter has been referred to MCEB DP panel for Study. DP Panel specifically tasked to explore costs involved and technical aspects of mandatory back link capability.

26-27 August 1993- Special Meeting of DP Panel (Tasked by J-6 in response to 16 July 1993 AF/XO memo) explored issues relating to

mandatory implementation. Operational, technical and cost impact discussed. AF tasked to provide detailed cost breakdown by platform line item to DP Panel NLT 1 December 1993.

A JTFISG meeting was held 4 November 1993 to discuss this issue. At this meeting it was agreed that this issue would be resolved at the next meeting (to be scheduled early February 1994).

February 1994 - The Air Force provided platform line item cost data to DP Panel. Total USAF estimate for mandatory implementation is 357.9 million.

May 1994 - At the February Joint Tactical Fusion Interoperability Steering Group (JTFISG) all except the USAF agreed that back link should be mandatory. The USAF has elevated the back link to the Joint Requirements Oversight Committee (JROC) as a requirement issue.

August 1994 - JCS has rescheduled a meeting between MAJ GEN Eberheart, J8 and MG Kelly, J6, for Monday, 8 August 1994 at 1430 (place TBD). The USAF is to brief Should be a round-table discussion of the issue. CFS Attendance is requested. Do not anticipate a final decision from this ad-hoc group. This is Preliminary for a presentation of the issue to the Vice Chairman/JCS.

November 1994 - 25 August 1994 - Issue briefed to J8 recommends USAF revalidate issue.
23 September 1994 - Issue briefed by J6 to Pre-JROC. JROC to validate the following statement as a Joint Operational Requirement:

"All tactical fighter aircraft, capable of air-superiority missions, be able to maintain digital exchange of sensor data (back link) with Command and Control platforms."

The USAF indicated fundamental agreement with J6 summary of the issue.

27 October 1994 - JROC scheduled to address the issue 1 November 1994.

February 1994 - 25 August 1994 - issue briefed to J8 by USAF. J8 recommends USAF revalidate substantive issue.

23 September 1994 - issue briefed by J6 to Pre-JROC. The following statement is forwarded to JROC for validation as a Joint Operational Requirement:

"All tactical fighter aircraft, capable of air-superiority missions, be able to maintain digital exchange of sensor data (back link) with Command and Control platforms."

1 November 1994 - JROC reviews and validates Joint Operational requirement as stated.

16 November 1994 - J6 message states,

"By validating the requirement for back link, the JROC has established a Joint requirement for standard implementation and development in utilizing Link 16 to maintain continuous digital exchange of sensor data from fighter aircraft in the air superiority role to Command and Control platforms."

27 January 1995 - CCB approves Change 4 to the Air Control Revision ICP. Change 4 responds to UK and French comments. USAF votes substantive NO. Appeal to Director, JIEO due NLT 10 February 1995.

1 February 1995 - CFS processing Change 4 for forwarding to DLWG meeting 27 February - 3 March 1995.

**STANDARDS COORDINATING COMMITTEE
ISSUE SUMMARY SHEET**

Updated: May 1995

Issue: 3-94-1 Susp Date: 2 Nov 94
Issue Title: Combining of UHF, SHF, and EHF Satellite
Communications Working Groups
Date Opened: 2 Aug 94
Lead Activity: CFS, Mr. Lou Pilla
Subactivities: TBBF

Issue Statement: Consider the consolidation of the various communication satellite forums (EHF CCB and MILSATCOM Tactical Working Group) into one body as in NATO.

Closing Criteria: Resolve the issue on how to handle addressing the three communications satellite areas.

Milestones:

1. Draft a proposal and place on ITSI/BBS for coordination/ comments OCT 94.
(Completed)
 2. Discuss at 2 November 1994 SCC.
 3. Discuss at 9 May 1995 SCC.
 4. Discuss at May 1995 MCEB.
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Current Status: May 1994 - The consolidation of the various satellite communications forums (i.e. Joint MILSATCOM Tactical Working Group (JMTWG), SHF Technical WG, UHF Technical WG, DAMA implementation WG, and the EHF CCB) will be presented to the May 1995 MCEB by Pravin Jain, D8 (EHF CCB Chairman). This was rescheduled from the Mar MCEB meeting. This coordinated DISA and Joint Staff (J6) position was pre-briefed to the Director, DISA, on 21 February 1995.

Issue Chronology:

2 August 1994 - Dr. Dale Hamilton of the OASD (C3I) suggested to the SCC membership

that they consider consolidation of the various satellite communications forums into one active body, as is done in NATO. Mr. Lou Pilla, DISA-JIEO-CFS-TBB, was identified as the responsible agent for this investigation.

20 September 1994 - A meeting was held with the chairperson of the EHF CCB and the Joint Staff (J6S) to address Dr. Hamilton's suggestions.

On 20 September 1994, a meeting was held to address Dr. Hamilton's suggestion that SCC consider consolidation of the various satellite communications forums into one active body, as is done in NATO. Attendees were Dr. Pravin Jain, Chairman of the EHF CCB; CDR Don Slaton; LTC Bertocchi J6S; and Mr. Lou Pilla, Chief, Information Transfer Department, Center for Standards, JIEO. CDR Slaton agreed to address the need to consolidate these working groups to the November 1994 MCEB in the form of an information paper. The Joint Staff anticipates that subsequent to the November MCEB meeting, a briefing will be prepared which will propose a strategy for carrying out this initiative. At that time, DISA and the Joint Staff will jointly develop the strategy.

The consolidation of the various satellite communications forums (i.e. Joint MILSATCOM Tactical Working Group (JMTWG), SHF Technical WG, UHF Technical WG, DAMA implementation WG, and the EHF CCB) will be briefed to the March 1995 MCEB by Capt Justin Keller, D8 (DISA Representative to the EHF CCB). This is a coordinated DISA and Joint Staff (J6) brief. The pre-brief for Director, DISA, will be on 21 February 1995.

**STANDARDS COORDINATING COMMITTEE
ISSUE SUMMARY SHEET**

Updated: May 1995

Issue: 3-94-05 **Susp Date:**
Issue Title: JKSWG Review of Navy Concerns on VMF Expansion
Date Opened:
Lead Activity: CFS, CDR Ray Snell
Subactivities:

Issue Statement:

Mr. Norton Bragg, Deputy Director, Information Directorate, CFS, will host a meeting of the Joint Multi-TADIL Standards Working Group (JMSWG) which will address the concerns raised by the US Navy, US Air Force, and Joint Staff caused by the release of the US Marine Corps interface change proposal expanding the scope of the variable message format standard. The JMSWG will investigate the impact of the proposed ICP at their next meeting in September 1994. The JMSWG will report back to the SCC at its next meeting in November 1994 on their findings.

Closing Criteria:

Milestones:

1. Investigate the impact of the proposed ICP at the next JMSWG meeting in September 1994.
 2. The JMSWG will report back to the SCC with their findings. November 1994
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Current Status:

February 1995 - The DMTD began an accelerated effort to develop VMF in support of USA task Force XXI advanced War fighting Experiment. This accelerated effort seeks to reduce a 3.5 - 4 year development process to 6-12 months.

April 1995 - As directed by DASD(C3I), JIEO hosted the first Tactical Data Link Working Group (TDLWG), to address Data Link Management and migration. The relationship of VMF to TADIL J will be examined in detail over the next 8 months prior to delivery of the management plan to ASD(C3I)

May 1995- The accelerated development of VMF in functional area beyond Fire Support is 25% completed after 3 months.

Issue Chronology:

November 1994 - JMSWG 94-3 met on 21 September 1994, and discussed the impact of the USMC VMF expansion ICP. The JMSWG reviewed the Navy's concerns over VMF expansion to support Army and Marine Corps Battlefield Digitization. Discussion centered on meeting the Navy's concerns by providing explicit guidance to the subgroup developing the VMF standard, in the form of a revised charter. The approved charter: 1) provides direction for development of a connectivity architecture; 2) provides direction for development of VMF - TADIL J forwarding rules and documents; and 3) directs maximum commonality between VMF and TADIL J/Link 16.

Closely related was a discussion on ASD(C3I) is Tactical Data Link Policy, which designates link 16 as the DOD Primary Data Link. All JMSWG representatives agreed to the policy in principle, however serious and significant differences of opinion exists as to definitions and applicability, specifically whether the policy applies equally to communication protocols as well as message standards. As the policy paper had already been staffed by was not yet signed (subsequently signed on 18 October), the JMSWG will continue to refine its position to support development of a Data Link Management Plan/Migration Plan as tasked to DISA in the policy.

The JMSWG tasked its Implementation Subgroup (IMSG) to further refine its position. The IMSG is scheduled to meet on 10 January and produce a consolidated position for JMSWG review on 18 January.

12-16 December - The Digital Message Transfer Device subgroup (DMTD SG), the JMSWG subgroup charged with developing the VKF standard, met. The SG began work on expanding VMF, using the Charters direction to ensure commonality with TADIL J. Work was begun to develop IERs that support development of a "connectivity architecture". The next meeting is 6 February 1995.

10 January 1995 - The IMSG met to consolidate understanding of ASD(C3I) is Data Link Policy of 18 October 1994. With respect to VMF and TADIL J, JIEO emphasized the intent to foster a family

of data links, closely related to TADIL J, with particular emphasis on standardizing on I series data elements and messages wherever possible. JIEO is continuing close liaison with ASD(C3I) on further development of the management plan, including an upcoming meeting to be jointly chaired by ASD(C3I) and The Joint Staff.

**STANDARDS COORDINATING COMMITTEE
ISSUE SUMMARY SHEET**

Updated: May 1995

Issue: 3-94-07 **Susp Date:**
Issue Title: Support for EDI SMC
Date Opened: 2 August 1994
Lead Activity: CFS
Subactivities:

Issue Statement: Dr. Kaplan requested the SCC membership to support the first meeting of the Electronic Data Interchange Standards Management Committee which is set for August 30, 1994. It is set to evaluate six implementation conventions (ICs), a draft management plan and management procedures for approval. Dr. Kaplan urged members to get their CINCS, Services and agencies involved in this very important activity.

Closing Criteria: Approval of six implementation conventions (ICs). Approval of Management Plan and Administrative procedures.

Milestones:

Federal ICs for 850 and 860 approved April 1995.

Federal ICs for 840, 843, 855 and 865 scheduled for 31 May 1995.

Current Status: May 1995 - the 850 (Purchase Order) and 860 (Purchase Order Change-Buyer Initiated) were approved as Federal ICs in April 95. The remaining four ICs (840, 843, 855, and 865) of the original family of six submitted through our EDI SMC process are out for Federal review. Formal approval of these ICs is expected by end of May 1995. The Management Plan and administrative procedures have been reviewed by the SMC members. Specific configuration management procedures will be addressed by an SMC established management working group.

Issue Chronology:

Six Implementation Conventions (ICs) and the draft Management Plan and Procedures were provided to attendees of the 30 Aug 94 EDI SMC for review/comments. The management Plan will be approved for final form and distribution at the 18 November SMC; the ICs will

be approved as DOD drafts. These draft ICs will be submitted to the Federal SMC for review and approval as Federal standards.

A list of attendees for the 30 August meeting is attached. The Army and Marines were not in attendance at this first meeting.

The second meeting of the DOD EDI SMC was held 18 November 1994. Six DOD draft ICs were submitted to the Federal SMC for approval as Federal IC Standards. Draft Federal ICs for EDI Transition Set 850 (Purchase Order) and 860 (Purchase Order Change - Buyer Initiated) were approved for public comment on 25 January 1995 and are scheduled to be approved as Federal Conversions by 15 March 1995. The remaining four ICs (840,843,855,865) are still in the Federal Procurement Functional Working Group and are scheduled for public comment approximately 31 March 1995.

**STANDARDS COORDINATING COMMITTEE
ISSUE SUMMARY SHEET**

Updated: August 1995

Issue: 2-95-04 **Susp Date:**
Issue Title: New Standards Process Approach
Date Opened: May 95
Lead Activity: CFS
Subactivities:

Issue Statement: The Standards Process Improvement Working Group deals with the problems identified initially by the U.S. Marine Corps in working with the development of Information Technology standards and the problems associated with timeliness and support of such efforts.

Closing Criteria: Presentation and approval of a Standards Process Improvement Working Group white paper documenting findings and recommendations to the current process.

Milestones:
6 October 1995: White paper staffed with Working Group members.

Current Status: May 1995 - Mr. Berrios, JEED, raised the issue at the 9 May 1995 SCC. His briefing focused on those areas in which the SCC and its subordinate bodies have direct influence: requirements analysis, standards development and testing, and configuration management and maintenance.

Issue Chronology:

February 1995 - Issue raised before the SCC. SCC provides additional guidance to the working group.

May 1995 - Mr. Wilbert Berrios, Chief of the DoD Standards Assistance Department, provided an update on the status of the Standards Process Improvement Working Group efforts to deal with the problems identified initially by the U.S. Marine Corps in

working with the development of Information Technology standards and the problems associated with timeliness and support of such efforts. Mr. Berrios discussed the additional guidance the SCC provided to the working group at the February meeting and outlined those actions the working group recommended as possible improvements. Mr. Berrios focused on those areas in which the SCC and its subordinate bodies have direct influence: requirements analysis, standards development and testing, and configuration management and maintenance. He stated that the basic process is sound, and that only minor adjustments were necessary. Mr. Dave Gaon of the CFS, Mr. Burt Newlin of the OASD(C3I), and Dr. Kaplan all raised the issue that the process may be flawed and that another paradigm, such as that used by the Internet Engineering Task Force (IETF)(adopting the standard after two successful prototypes have been demonstrated), might be more appropriate to meet DoD's needs. Another alternative discussed by Dr. Kaplan was requiring that the standard be tested as part of the system compliance testing. The service that first requires the standard should pay to test the standard as a part of development. Dr. Kaplan recommended that the group get back together to investigate these alternatives and come forth with some additional recommendations. On the basis of the discussion, COL Williams directed Mr. Berrios to reconvene the working group to address these issues and present a briefing at the next SCC meeting.

June 1995 - COL Williams approved the concept of drafting a white paper documenting the findings and recommendation of the previous working group (WG) meetings as alternative approach to immediately reconvening the working group. The white paper would be staffed with the working group members for their review and comments and presented in the August SCC.

August 1995 - COL Williams approved delaying the white paper briefing to the SCC scheduled for 1st Quarter FY96, due to planning and preparation of the Center for Standards symposium.

November 1995 - JEBEC facilitated a teleconference on November 28, 1995. A number of action items/issues came out of this teleconference.

The meeting on December 12th was canceled. ESA names will not be included in the DISA Naming Standards document. The Naming Standards will reference the DMC SOP for the naming conventions for ESA and 3rd party software. Tom Simpson has agreed to include the DMC Implementation Guide in the SOP. The SOP will be maintained in Denver so updates will be easy.

Suggestions for changes to the MVS portion of the DISA Naming Standards documents should be forwarded to Don McClintok mcclintd@dmc.ri.disa.mil.

Dayton & Mech will continue to finalize the DMC (ESA) Implementation Guide. When ver 1.0 is final I will send to the DMC Directors via Col Jones for signature/agreement. Hopefully we can get close to ver 1.0 before the exec software meeting January 23-25.

Tim Drazba will look into the impact of OS/390 on our central receipt and distribution plan.

The Web site for open edition MVS is:

<http://www.s390.ibm.com:80/products/oe.bpxa1whp.html>.

Center for Standards will “publish” the standards documents on the Web.